

2002-185963/an

L1 ANSWER 1 OF 1 WPINDEX COPYRIGHT 2005 THE THOMSON CORP on STN  
ACCESSION NUMBER: \*\*\*2002-185963\*\*\* [24] WPINDEX  
TITLE: Fuel cell adopting multilayered ion conductive polymer  
membrane.  
DERWENT CLASS: X16  
INVENTOR(S): KIM, H G  
PATENT ASSIGNEE(S): (SMSU) SAMSUNG ELECTRONICS CO LTD  
COUNTRY COUNT: 1  
PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG	MAIN	IPC
KR 2001093359	A	20011029	(200224)*		1	H01M008-10	
KR 355392	B	20021011	(200325)			H01M008-10	

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
KR 2001093359	A	KR 2000-15876	20000328
KR 355392	B	KR 2000-15876	20000328

FILING DETAILS:

PATENT NO	KIND	PATENT NO
KR 355392	B Previous Publ.	KR 2001093359

PRIORITY APPLN. INFO: KR 2000-15876 20000328  
INT. PATENT CLASSIF.:

MAIN: H01M008-10

BASIC ABSTRACT:

KR2001093359 A UPAB: 20020416

NOVELTY - A fuel cell which adopts a multilayered ion conductive polymer membrane is provided to inhibit water from moving from a cathode to an anode and to prevent the deterioration of the ion conductivity due to the increase of temperature, thereby improving the efficiency and performance of a fuel cell.

DETAILED DESCRIPTION - The fuel cell comprises a cathode, an anode and an ion conductive polymer membrane(21) placed between the two electrode, wherein the ion conductive polymer membrane(21) is provided with a first ion conductive polymer membrane(21A) which is formed in the part of the cathode and comprises an ion exchange polymer and a material with the good water absorption, and a second ion conductive polymer membrane(21B) which is formed in the part of the anode and comprises an ion exchange polymer and a metal catalyst. Preferably the first and second ion conductive polymer membranes are a multilayered structure. The concentration of the water-absorbing material of the first ion conductive polymer membrane, and the concentration of metal catalyst of the second ion conductive polymer membrane decrease from the polymer membrane to the interface between the two polymer membranes.

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FILE SEGMENT: EPI  
FIELD AVAILABILITY: AB; GI  
MANUAL CODES: EPI: X16-C01